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(54) **PRODUCT MANAGEMENT DISPLAY SYSTEM**

WARENPRÄSENTATIONS-UND VERWALTUNGSSYSTEM

SYSTEME D'ETALAGE CON U POUR LA GESTION DE PRODUITS

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Description

[0001] This application claims priority to provisional U.S. Application Serial Number 60/291,732, filed May 17, 2001, entitled Product Management Display System.

FIELD OF THE INVENTION

[0002] The invention relates to a system for displaying, pushing, and dividing merchandise on merchandise-display shelves.

BACKGROUND OF THE INVENTION

[0003] It is desirable to have merchandise on a shelf situated toward the front of the shelf so that the merchandise is visible and accessible to shoppers. Thus, as merchandise is removed from a shelf, it may be advantageous to push the remaining merchandise toward the front of the shelf. It may also be desirable to include dividing panels, also referred to as dividers, to separate merchandise into rows on a display shelf.

[0004] Commonly assigned U.S. Patent 6,041,720 ("the '720 patent") discloses a product management display system that may be used for dividing and pushing displayed merchandise.

[0005] DE 299-02,688 U1 discloses a merchandise display system in which a base-and-divider assembly is constructed as two separate units that need to be connected to each other before being used. When the system of D1 is used with products having different sizes, product slider guides also referred to herein as pusher tracks, of various widths need to be used to accommodate the different sizes of the products.

[0006] U.S. Patent 5,265,738 discloses a merchandise display system with a pusher track that has an integrated divider wall on one side of the pusher track. Like the system disclosed by DE 299-02,688 U1, pusher tracks having different widths must be used to accommodate products of different sizes.

[0007] Referring to Figure 1 of the '720 patent, various components, such as pusher end device 150, pusher divider 152, and pusher 154 mounted on bases 166, 212, and 232, respectively, are disclosed for mounting onto either shelf frame 25 or standard dealer shelf 40. The pusher end device 150, the pusher divider 152, and the pusher 154, which are mounted to bases 166, 212, and 232, of Figure 1 of the '720 patent were designed with ultimate flexibility in mind. This flexibility allows these components to be assembled and used in many different ways depending on the particular product to be displayed. This presents store personnel with potentially confusing choices, which may lead to frustration, wasted time, and incorrectly installed parts. Three pusher components, namely, a full-width track, which can accept the pushing device, a divider, and a narrow track, are typically used together more often than other com-

binations of components. Therefore, a component that combines these devices into a single integrated assembly would be desirable.

SUMMARY OF THE INVENTION

[0008] An integrated "T" assembly, also referred to as a base-and-divider assembly, in accordance with an illustrative embodiment of the invention combines into a single integrated assembly, a full-width track, a divider, and a narrow track. A narrow and Strong end-finisher piece may be used to provide a second divider-like partition and, optionally a wide or narrow track, for pairing with a T assembly's narrow-track or wide-track portion near an end of either side of a shelf.

[0009] In accordance with an illustrative embodiment of the invention, a spring-urged offset pusher may have an upper portion that is offset, via an angled offset portion, from a lower portion of the pusher. The upper offset portion may advantageously extend farther out toward the center of various products to be displayed. Such an offset pusher may allow for using a minimal number of components while still pushing products relatively near to their centers, having the advantage of pushing them smoothly with less binding. When displaying a wide product, one or more supporting tracks, any of which may have a pusher, may be used under the product.

[0010] In accordance With an illustrative embodiment of the invention, a T assembly and/or a full track may be coupled to a front rail via a complimentary tongue and groove arrangement. Any of the components having a divider panel, such as a T assembly, an end finisher, and a full-width track, may also contain any of various engagement mechanisms for non-slidably engaging with a front rail's corresponding engagement mechanism. For instance, teeth on a base may engage corresponding teeth on the front rail. Teeth of this type advantageously allow a T assembly, full-width track, and/or end finishers with Corresponding teeth to be located at positions virtually continuously along the front rail and may prevent the components from being moved unintentionally from their intended positions during normal shopping activity and shelf re-stocking.

[0011] In accordance with an illustrative embodiment of the invention, a T assembly may include a tear-off line and a break-off line. Such a tear-off line and break-off line combination may be used to advantage to produce one part that may be used for shelves having different depths, such as either 16 inches or 10 inches.

[0012] In accordance with an illustrative embodiment of the invention, a pusher track may include a depression, which may be used while re-stocking merchandise to hold a pusher near the back of a full-width track or T assembly. To use the depression to hold a pushes at the back of the track, a person may move the pusher back to the depression and may tilt the top of the pusher toward the front of the track. Merchandise may be re-stocked without having to manually hold the pusher out

of the way. To remove the pusher from the depression, the pusher may be pushed toward the back of the track, the pusher will then return to an upright position and move along the track in its usual way.

[0013] In accordance with an illustrative embodiment of the invention, front edges of the respective surfaces that the pusher travels along may automatically engage a bent portion of the pusher's coiled spring when the pusher is inserted onto the front of the track.

[0014] Additional features and advantages of the invention will be apparent upon reviewing the following detailed description.

BRIEF DESCRIPTION OF THE DRAWINGS

[0015]

Figure 1 depicts an integrated "T" assembly, also referred to as a base-and-divider assembly, in accordance with an illustrative embodiment of the invention.

Figure 2 depicts a right end component in accordance with an illustrative embodiment of the invention.

Figure 3 shows an offset pusher in accordance with an illustrative embodiment of the invention.

Figure 4 shows a full-width track, also referred to as a base, which may be used with or without a pusher, in accordance with an illustrative embodiment of the invention.

Figure 5 is perspective view of the bottom of a T assembly in accordance with an illustrative embodiment of the invention.

Figure 6 is a perspective view of a front rail in accordance with an illustrative embodiment of the invention.

Figure 7 is an enlarged oblique side view of the front rail of Figure 7 in accordance with an illustrative embodiment of the invention.

Figure 8 depicts a full-width track with a pusher between two T assemblies in accordance with an illustrative embodiment of the invention.

Figure 9, is an enlarged view of the rear portion of the bottom of a T assembly in accordance with an illustrative embodiment of the invention.

Figure 10, depicts products of different sizes on multiple T assemblies.

Figure 11 depicts an integrated end component in accordance with an illustrative embodiment of the invention.

Figure 12 is a partial side view of a cross-section of a bent end of a pusher's coiled spring engaging the front edge of a pusher track in accordance with an illustrative embodiment of the invention.

DETAILED DESCRIPTION OF THE INVENTION

[0016] Figure 1 depicts an integrated "T" assembly

500 in accordance with an illustrative embodiment of the invention. The "T" refers to the appearance of the T assembly 500 as viewed in the direction of arrow 502 in Figure 5. T assembly 500 would actually look like an upside-down (and off center) T, but for the sake of brevity, it is referred to simply as a T assembly. The T assembly may also be referred to as a base-and-divider assembly. The T assembly essentially combines into a single assembly, a first track, a divider, and a second track. In accordance with an illustrative embodiment of the invention, the divider portion 504, the first portion 518 of the base, and the second portion of the base 520 may be manufactured as a single integrated component.

[0017] In accordance with an illustrative embodiment of the invention shown in Figure 1, a divider 504 may divide the base of the T assembly 500 into a first portion 518 and a second portion 520. The first portion 518 of the base may be referred to as a wide portion of the base and the second portion 520 may be referred to as a narrow portion 520 of the base 500. As will be apparent any suitable ratio of widths may be chosen for the first and second portions of the base. For instance, the divider 504 may bisect the base such that the base's first and second portions are of a substantially equal width.

[0018] T assembly 500 may have a relatively thick and rigid divider 504 to prevent deflection that might occur when pushing round or triangular objects. Deflection of this type could cause those objects to slip by one another or not to push well in general. In Figure 1, rigid divider 504 includes two parts, 514-1 and 514-2, which are described below.

[0019] At either end of a shelf using the pusher components, a narrow and strong end-finisher component is desirable. Referring to Figure 2, a right-end component 600 may be fastened to a shelf near the right-hand side of the shelf. The right-end component's divider 608 may act the right-most divider on the shelf. The right-end component 600 may be operatively coupled to a shelf by inserting pegs 604 and 606 through corresponding holes in a shelf. One or more fasteners, such as plastic push-rivets, may be used through holes 602-1 through 602-4, and corresponding holes in a shelf, to securely fasten the right-end component to the shelf.

[0020] The left-end component shown in Figure 2 is intended to be placed at a fixed location near the right side of a shelf's top surface. Referring to Figure 11, a left-end component 1500 may be similar to a T assembly 500 except that, for the left-end component 1500 the portion of the T assembly's base to the left of the divider is omitted. Accordingly, the left-end component 15, may include a divider 504 and a base portion 518. Because the right-end component is intended to have a fixed location and the other components may have adjustable positions along a rail near the front of a shelf, components may be placed onto the shelf and the front rail from right to left to allow for maximum flexibility in adjusting the distances between the components.

[0021] The width of many products, such as deodor-

ants, analgesics, antihistamines, would allow a minimum number of pusher and base components to be used, spaced laterally apart from each other along a shelf, but the pushers may undesirably end up sufficiently off-center such that the products do not get pushed well. For instance, referring to Figure 10, multiple T assemblies 500-1 through 500-3 are shown operatively coupled to a shelf 1401 via a front rail. A relatively narrow product 1400 is shown being supported by the wide portion S18-2 of the base of T assembly 500-2 and by the narrow portion 520-3 of the T assembly 500-3. T assemblies 500-2 and 500-3 are positioned relatively close to each other because product 1400 is relatively narrow. Product 1402, however, is relatively wide. T assembly 500-1, therefore, is spaced relatively far away from T assembly 500-2. The product 1402 is supported by the narrow portion 520-2 of the base of the T assembly 500-2 and the wide portion 518-1 of the base of the T assembly 500-1. Because the pusher track and pusher of the T assembly 500-1 are located relatively close to the divider 504-1 of T assembly 500-1, an offset pusher, such as the offset pusher 700 (Figure 3) may be used so that the offset portion 702 may be positioned closer to the center of a relatively wide product, such as product 1402. Offset pusher 700 has an upper portion 702 that is offset, via an offset portion 704, from a lower portion 706 of the pusher 700. Upper offset portion 702 advantageously extends farther out toward the center of various products to be displayed. The offset pusher allows for using a minimal number of components while still pushing products relatively near to their centers.

[0022] Occasionally a product is too wide to use only T assemblies 500 on either side of the product. Under these circumstances, one or more supporting tracks may be used under the product. In addition, a product may be unusually dense and/or heavy such that the product requires another track with an additional pusher to move the product. Under these circumstances, a full-width track, such as full-width track 800, shown in Figure 4 and also referred to as a base, may be used either with or without a pusher 700.

[0023] For instance, Figure 8 depicts a full-width track 800 with a pusher 700-3 between two T assemblies 500-2 and 500-3 with pushers 700-2 and 700-4 to the left and right sides, respectively, of the full-width track 800.

[0024] In accordance with an illustrative embodiment of the invention, any of the components, which have a divider and/or a pusher track, may be coupled to a front rail via a complimentary tongue and groove arrangement as disclosed in the 720 patent. The T assembly 500 and full track 800 may non-slidably engage each other. For instance, teeth 900, shown in Figure 5, may engage a corresponding non-slidable engagement detail in a front rail, such as front rail 1000 shown in Figure 6. Figure 7 is an enlarged oblique side view of the front rail 1000, viewed from the direction indicated by arrow 1002 in Figure 6. Teeth 1100 allow a T assembly 500,

full-width track 800, and/or a left-end component with corresponding teeth to be located at virtually continuous positions along the front rail. The mating teeth may be relatively thin and closely spaced to allow for precise placement of pusher-track components. The teeth advantageously prevent the components from being unintentionally moved from their intended positions during normal shopping activity and shelf re-stocking.

[0025] As will be apparent, other ways of positively engaging T assembly 500, full-width track 800, and/or a left-end component with the front rail may also be used. For instance, serrations on the front rail could bite into the bottom of the pusher-track components. A compression fit arrangement could be used in which a tongue of the pusher-track component snaps into the front rail. The front rail could have rubber in a groove that would receive a serrated tongue of a pusher-track component

[0026] Referring again to Figure 1, the T assembly 500 may optionally include a tear-off line, such as tear-off line 506, and a break-off line, such as break-off line 510. Such a tear-off line and break-off line combination may be used to advantage to produce one part that may be used for shelves having different depths, such as either 16 inches and 10 inches. Tear-off line 506 allows tearing of the vertically oriented divider pieces 514-1 and 514-2 as a first operation. This tearing operation may then be followed by a breaking operation to separate track piece 516-1 from track piece 516-2. The combination of the tear-off line and the break-off line facilitates removal of the rear portion of the T assembly 500. As will be apparent, a full-width track and/or a right-end finisher may also optionally include a break-off line analogous to the break-off line 510.

[0027] After removing the rear portion of the T assembly 500 or any other base that may accept a pusher 700, the pusher 700 may be prevented from sliding out of the back of the pusher track by inserting a pin into hole 508. An exemplary pin 1300 is shown molded into the bottom rear portion of a base in Figure 9.

[0028] Referring to Figure 4, a depression 802 is shown. The depression 802 may be used, while restocking merchandise, to hold a pusher 700 near the back of a track 800 or a T assembly 500. To use the depression 802 to hold a pusher 700 at the back of the track 800, a person may move the pusher 700 back to the depression 802 and may tilt the top of the pusher 700 toward the front of the track 800, for instance, in a direction opposite of arrow 502 in Figure 1. The depression 802 then holds the pusher 700 so that merchandise may be re-stocked without having to manually hold the pusher out of the way while placing the merchandise on the track surface. To remove the pusher 700 from the depression 802, the pusher may be pushed toward the back of the track 800, the pusher will then return to an upright position and move along the track 800 in its usual way.

[0029] Front edges 804-1 and 804-2 of the respective

surfaces that the pusher travels along may automatically engage a bent portion of the pusher's coiled spring when the pusher is inserted onto the front of the track 800. Figure 12 is a partial side view of a cross-section of a bent end of a spring 806 engaging the front edge 804-1 of the track 800.

[0030] Figure 12 also shows a complimentary tongue and groove engagement between a component 1600, which includes a pusher track, and a front rail 1602 in accordance with an illustrative embodiment of the invention. A tongue 1604 of the component 1600 engages a groove 1606 of the front rail 1602, and a tongue 1608 of the front rail 1602 engage a groove 1610 in the component.

[0031] While the invention has been described with respect to specific examples including presently preferred modes of carrying out the invention, those skilled in the art will appreciate that there are numerous variations and permutations of the above described systems and techniques that fall within the scope of the invention.

Claims

1. A merchandise-display system, comprising:
 - an integrated base-and-divider assembly (500) for supporting displayed merchandise, wherein the base-and-divider assembly includes
 - a base portion adapted for operative coupling to a shelf, and
 - a divider portion (504) for dividing displayed merchandise into rows, wherein the divider portion protrudes from the base such that the divider portion separates the base portion into a first portion (518) having a pusher track (800) and a second portion (520); and
 - a spring-urged pusher (700) in the pusher track for pushing merchandise along the first portion toward the front of the shelf.
2. The merchandise-display system of Claim 1, wherein the base portion and the divider portion have respective removable breakaway portions (516-2 and 514-2) for reducing a length of the base portion and a length of the divider portion.
3. The merchandise-display system of Claim 1, wherein, with the breakaway portion of the base portion removed, a peg (1300) inserted into a hole (508) near the back of the first portion prevents the pusher from sliding off the back of the pusher track.
4. The merchandise-display system of Claim 1, wherein a front edge (804) of the pusher track automatically engages a bent portion of a coiled spring (806) of the pusher as the pusher is inserted onto the front of the pusher track.
5. The merchandise-display system of Claim 1, wherein the pusher track includes a depression (802) for holding the pusher near the back of the track in a shelf-stocking position.
6. The merchandise-display system of Claim 1, wherein the pusher includes an offset portion (702) positioned farther away from the divider portion than the distance between the divider portion and the pusher track.
7. The merchandise-display system of Claim 6, wherein the offset portion is an upper portion of the pusher that is offset from a lower portion of the pusher by an angled offset portion (704).
8. The merchandise-display system of Claim 1, wherein the first portion of the base portion of the base-and-divider assembly is wider than the second portion of the base portion of the base-and-divider assembly.
9. The merchandise-display system of Claim 1, further comprising: an integrated end component (600, 1500) having a base portion (610, 518) and a divider portion (608, 504), wherein the divider portion of the end component, the divider portion of the base-and-divider assembly, and the pusher cooperate to contain merchandise for display.
10. The merchandise-display system of Claim 1, wherein the base portion of the end component supports a side of the first row of displayed merchandise (1400) opposite of the at least one side of the first row of displayed merchandise that is supported by the first portion of the base-and-divider assembly.
11. The merchandise-display system of Claim 8, further comprising: a base adapted for operative coupling to the shelf (1401), wherein the base includes a pusher track (800).
12. The merchandise-display system of Claim 10, further comprising: a spring-urged pusher in the pusher track of the base.
13. The merchandise-display system of Claim 1, further comprising: a base adapted for operative coupling to the Shelf (1401), wherein the base includes a pusher track (800).
14. The merchandise-display system of Claim 12, further comprising: a spring-urged pusher in the push-

er track of the base.

15. The merchandise-display system of Claim 1, wherein the base-and-divider assembly is non-slidably engaged with a front rail (1000) that extends along and is affixed to a front portion of the shelf.

16. The merchandise-display system of Claim 14, further comprising: gear teeth-like projections (900) near the front of a bottom surface of the base-and-divider assembly engaged with gear teeth-like projections (1100) on an upwardly facing surface of the front rail.

17. The merchandise-display system of Claim 1, further comprising an integrated end component (1500), which includes a base portion (518) integrated with a divider portion (504), wherein the base portion of the end component is adapted for operative coupling to the shelf, and wherein the divider portion of the end component, the divider portion of the base-and-divider assembly, and a pusher in a pusher-track of the end component cooperate to contain merchandise for display.

18. The merchandise-display system of Claim 16, wherein the base portion of the end component supports a side of the second row of displayed merchandise (1402) opposite of the at least one side of the second row of displayed merchandise that is supported by the second portion of the base-and-divider assembly.

19. The merchandise-display system of Claim 16, further comprising:

a second integrated base-and-divider assembly (500-1) having an offset pusher and adapted for operative coupling to a shelf, wherein the second base portion (520-2) of the base-and-divider assembly (500-2) supports a first side of a displayed product (1402) and a first base portion (518-1) of the second base-and-divider assembly supports a side, which is opposite from the first side, of the product.

20. The merchandise display system of claim 1, wherein the base portion is operatively coupled to a shelf (1401) via a front rail (1000).

21. The merchandise display system of claim 1, wherein the base portion is operatively coupled to a shelf (1401) via a rail (1000) that is affixed to the shelf.

Patentansprüche

1. Warenauslagesystem, das umfasst:

eine integrierte Grundplatten-Teiler-Baueinheit (500) zum Tragen ausgelegter Waren, wobei die Grundplatten-Teiler-Baueinheit enthält:

einen Grundplattenabschnitt, der für die funktionale Verbindung mit einem Regal geeignet ist, und

einen Teilerabschnitt (504) zum Teilen ausgelegter Waren in Reihen, wobei der Teilerabschnitt aus der Grundplatte vorsteht, so dass der Teilerabschnitt den Grundplattenabschnitt in einen ersten Abschnitt (518) mit einer Vordrückerspür (800) und in einen zweiten Abschnitt (520) trennt; und

einen durch eine Feder gedrückten Vordrucker (700) in der Vordrückerspür zum Vordrücken von Waren entlang dem ersten Abschnitt zur Vorderseite des Regals.

2. Warenauslagesystem nach Anspruch 1, bei dem der Grundplattenabschnitt und der Teilerabschnitt jeweilige entfembare Losbrechabschnitte (516-2 und 514-2) besitzen, um eine Länge des Grundplattenabschnitts und eine Länge des Teilerabschnitts zu verringern.

3. Warenauslagesystem nach Anspruch 1, bei dem ein Stift (1300), der, in eine Bohrung (508) in der Nähe des hinteren Endes des ersten Abschnitts eingeführt ist, verhindert, dass der Vordrucker vom hinteren Ende der Vordrückerspür abgleitet, wenn der Losbrechabschnitt des Grundplattenabschnitts entfernt ist.

4. Warenauslagesystem nach Anspruch 1, bei dem ein vorderer Rand (804) der Vordrückerspür automatisch mit einem gebogenen Abschnitt einer Spiralfeder (806) des Vordrückers in Eingriff gelangt, während der Vordrucker auf das vordere Ende der Vordrückerspür eingeführt wird.

5. Warenauslagesystem nach Anspruch 1, bei dem die Vordrückerspür eine Vertiefung (802) enthält, um den Vordrucker in der Nähe des hinteren Endes der Spür in einer Regalauffüllungsposition zu halten.

6. Warenauslagesystem nach Anspruch 1, bei dem der Vordrucker einen Versatzabschnitt (702) enthält, der weiter als die Entfernung zwischen dem Teilerabschnitt und der Vordrückerspür von dem Teilerabschnitt entfernt positioniert ist.

7. Warenauslagesystem nach Anspruch 6, bei dem der Versatzabschnitt ein oberer Abschnitt des Vordrückers ist, der durch einen angewinkelten Versatzabschnitt (704) gegenüber einem unteren Ab-

schnitt des Vordrückers versetzt ist.

8. Warenauslagesystem nach Anspruch 1, bei dem der erste Abschnitt des Grundplattenabschnitts der Grundplatten-Teiler-Baueinheit breiter als der zweite Abschnitt des Grundplattenabschnitts der Grundplatten-Teiler-Baueinheit ist. 5
9. Warenauslagesystem nach Anspruch 1, das ferner umfasst: eine integrierte Endkomponente (600, 1500) mit einem Grundplattenabschnitt (610, 518) und einem Teilerabschnitt (608, 504), wobei der Teilerabschnitt der Endkomponente, der Teilerabschnitt der Grundplatten-Teiler-Baueinheit und der Vordrucker zusammenwirken, so dass sie die Waren für die Auslage enthalten. 10
10. Warenauslagesystem nach Anspruch 1, bei dem der Grundplattenabschnitt der Endkomponente eine Seite der ersten Reihe ausgelegter Waren (1400) trägt, die der wenigstens einen Seite der ersten Reihe ausgelegter Waren, die durch den ersten Abschnitt der Grundplatten-Teiler-Baueinheit getragen wird, gegenüberliegt. 15
11. Warenauslagesystem nach Anspruch 8, das ferner umfasst: eine Grundplatte, die für die funktionale Verbindung mit dem Regal (1401) geeignet ist, wobei die Grundplatte eine Vordrückerspur (800) enthält. 20
12. Warenauslagesystem nach Anspruch 10, das ferner umfasst: einen durch eine Feder gedrückten Vordrucker in der Vordrückerspur der Grundplatte. 25
13. Warenauslagesystem nach Anspruch 1, das ferner umfasst: eine Grundplatte, die für die funktionale Verbindung mit dem Regal (1401) geeignet ist, wobei die Grundplatte eine Vordrückerspur (800) enthält. 30
14. Warenauslagesystem nach Anspruch 12, das ferner umfasst: einen durch eine Feder gedrückten Vordrucker in der Vordrückerspur der Grundplatte. 35
15. Warenauslagesystem nach Anspruch 1, bei dem die Grundplatten-Teiler-Baueinheit mit einer vorderen Schiene (1000), die entlang einem vorderen Abschnitt des Regals verläuft und an ihm befestigt ist, nicht gleitfähig in Eingriff ist. 40
16. Warenauslagesystem nach Anspruch 14, das ferner umfasst: verzahnungsähnliche Vorsprünge (900) in der Nähe des vorderen Endes einer Unterseite der Grundplatten-Teiler-Baueinheit, die mit verzahnungsähnlichen Vorsprüngen (1100) an einer nach oben weisenden Oberfläche der vorderen Schiene in Eingriff sind. 45

17. Warenauslagesystem nach Anspruch 1, das ferner eine integrierte Endkomponente (1500) umfasst, die einen mit einem Teilerabschnitt (504) integrierten Grundplattenabschnitt (518) enthält, wobei der Grundplattenabschnitt der Endkomponente für die funktionale Verbindung mit dem Regal geeignet ist und wobei der Teilerabschnitt der Endkomponente, der Teilerabschnitt der Grundplatten-Teiler-Baueinheit und ein Vordrucker in einer Vordrückerspur der Endkomponente zusammenwirken, so dass sie Waren zur Auslage enthalten. 5
18. Warenauslagesystem nach Anspruch 16, bei dem der Grundplattenabschnitt der Endkomponente eine Seite der zweiten Reihe ausgelegter Waren (1402) trägt, die der wenigstens einen Seite der zweiten Reihe ausgelegter Waren, die durch den zweiten Abschnitt der Grundplatten-Teiler-Baueinheit getragen ist, gegenüberliegt. 10
19. Warenauslagesystem nach Anspruch 16, das ferner umfasst: 15

eine zweite integrierte Grundplatten-Teiler-Baueinheit (500-1) mit einem Versatzvordrucker, die für die funktionale Verbindung mit einem Regal geeignet ist, wobei der zweite Grundplattenabschnitt (520-2) der Grundplatten-Teiler-Baueinheit (500-2) eine erste Seite eines ausgelegten Produkts (1402) trägt und wobei ein erster Grundplattenabschnitt (518-1) der zweiten Grundplatten-Teiler-Baueinheit eine Seite des Produkts trägt, die der ersten Seite gegenüberliegt. 20
20. Warenauslagesystem nach Anspruch 1, bei dem der Grundplattenabschnitt über eine vordere Schiene (1000) funktional mit einem Regal (1401) verbunden ist. 25
21. Warenauslagesystem nach Anspruch 1, bei dem der Grundplattenabschnitt über eine an dem Regal befestigte Schiene (1000) funktional mit einem Regal (1401) verbunden ist. 30

Revendications

1. Dispositif de présentation de marchandises, comprenant : 50
 - un ensemble intégré de base et de séparation (500) pour supporter les marchandises exposées, l'ensemble de base et de séparation comprenant
 - une partie de base conçue pour être couplée fonctionnellement à une étagère, et
 - une partie de séparation (504) pour séparer les

- marchandises exposées en rangées, la partie de séparation dépassant de la base de sorte que la partie de séparation sépare la partie de base en une première partie (518) ayant un rail de poussoir (800) et en une deuxième partie (520); et
- un poussoir à ressort (700) situé dans le rail de poussoir pour pousser les marchandises le long de la première partie vers l'avant de l'étagère.
2. Dispositif de présentation de marchandises selon la revendication 1, dans lequel la partie de base et la partie de séparation possèdent respectivement des parties séparables amovibles (516-2 et 514-2) pour réduire la longueur de la partie de base et la longueur de la partie de séparation.
 3. Dispositif de présentation de marchandises selon la revendication 1, dans lequel, la partie séparable de la partie de base ayant été retirée, une cheville (1300) insérée dans un trou (508) proche de l'arrière de la première partie empêche le poussoir de glisser hors de l'arrière du rail de poussoir.
 4. Dispositif de présentation de marchandises selon la revendication 1, dans lequel le bord avant (804) du rail de poussoir vient automatiquement en prise avec une partie courbée d'un ressort hélicoïdal (806) du poussoir lorsque le poussoir est inséré sur l'avant du rail de poussoir.
 5. Dispositif de présentation de marchandises selon la revendication 1, dans lequel le rail de poussoir comprend une dépression (802) pour maintenir le poussoir près de l'arrière du rail dans une position d'approvisionnement de l'étagère.
 6. Dispositif de présentation de marchandises selon la revendication 1, dans lequel le poussoir comprend une partie décalée (702) en position éloignée de la partie de séparation d'une distance supérieure à la distance entre la partie de séparation et le rail de poussoir.
 7. Dispositif de présentation de marchandises selon la revendication 6, dans lequel la partie décalée constitue la partie supérieure du poussoir, laquelle est décalée de la partie inférieure du poussoir à l'aide d'une partie inclinée de décalage (704).
 8. Dispositif de présentation de marchandises selon la revendication 1, dans lequel la première partie de la partie de base de l'ensemble de base et de séparation est plus large que la deuxième partie de la partie de base de l'ensemble de base et de séparation.
 9. Dispositif de présentation de marchandises selon la revendication 1, comprenant en outre un composant d'extrémité intégré (600, 1500) ayant une partie de base (610, 518) et une partie de séparation (608, 504), dans lequel la partie de séparation du composant d'extrémité, la partie de séparation de l'ensemble de base et de séparation et le poussoir coopèrent pour contenir les marchandises à présenter.
 10. Dispositif de présentation de marchandises selon la revendication 1, dans lequel la partie de base du composant d'extrémité supporte un côté de la première rangée de marchandises exposées (1400) opposé à au moins un côté de la première rangée de marchandises exposées qui est supporté par la première partie de l'ensemble de base et de séparation.
 11. Dispositif de présentation de marchandises selon la revendication 8, comprenant en outre une base conçue pour être couplée fonctionnellement à l'étagère (1401), dans lequel la base comprend un rail de poussoir (800).
 12. Dispositif de présentation de marchandises selon la revendication 10, comprenant en outre un poussoir à ressort situé dans le rail de poussoir de la base.
 13. Dispositif de présentation de marchandises selon la revendication 1, comprenant en outre une base conçue pour être couplée fonctionnellement à l'étagère (1401), dans lequel la base comprend un rail de poussoir (800).
 14. Dispositif de présentation de marchandises selon la revendication 12, comprenant en outre un poussoir à ressort situé dans le rail de poussoir de la base.
 15. Dispositif de présentation de marchandises selon la revendication 1, dans lequel l'ensemble de base et de séparation est en prise de façon non coulissante avec un rail avant (1000) qui s'étend le long de la partie antérieure de l'étagère à laquelle il est fixé.
 16. Dispositif de présentation de marchandises selon la revendication 14, comprenant en outre des projections analogues à des dents d'engrenage (900) proches de l'avant de la surface inférieure de l'ensemble de base et de séparation en prise avec des projections analogues à des dents d'engrenage (1100) sur une surface tournée vers le haut du rail avant.
 17. Dispositif de présentation de marchandises selon

la revendication 1, comprenant en outre un composant d'extrémité intégré (1500), lequel comprend une partie de base (518) intégrée à une partie de séparation (504), dans lequel la partie de base du composant d'extrémité est adaptée pour être couplée fonctionnellement à l'étagère et dans lequel la partie de séparation du composant d'extrémité, la partie de séparation de l'ensemble de base et de séparation et un poussoir situé dans le rail de poussoir du composant d'extrémité coopèrent pour contenir les marchandises à présenter.

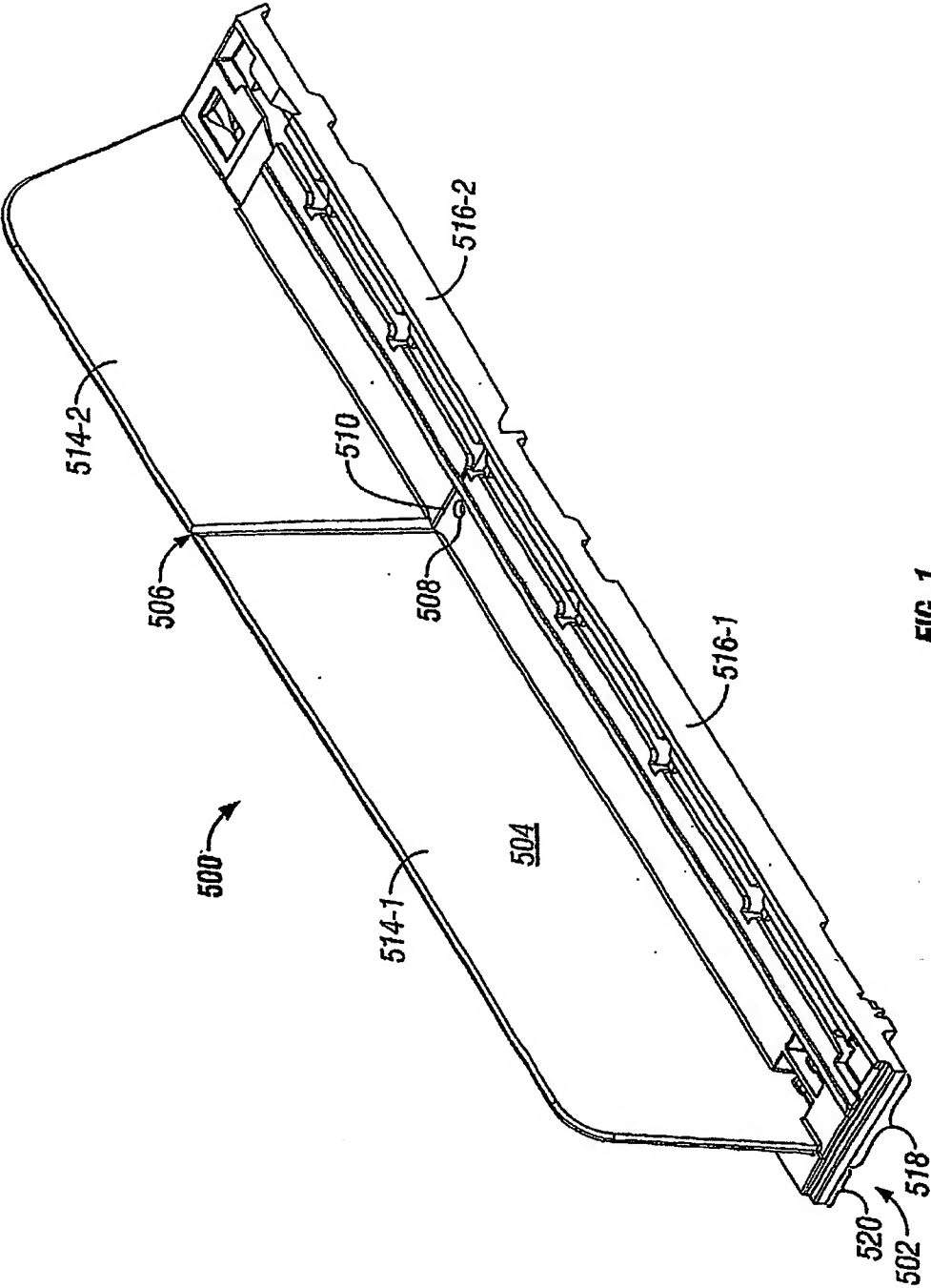
18. Dispositif de présentation de marchandises selon la revendication 16, dans lequel la partie de base du composant d'extrémité supporte un côté de la deuxième rangée de marchandises exposées (1402) opposé à au moins un côté de la deuxième rangée de marchandises exposées qui est supporté par la deuxième partie de l'ensemble de base et de séparation.

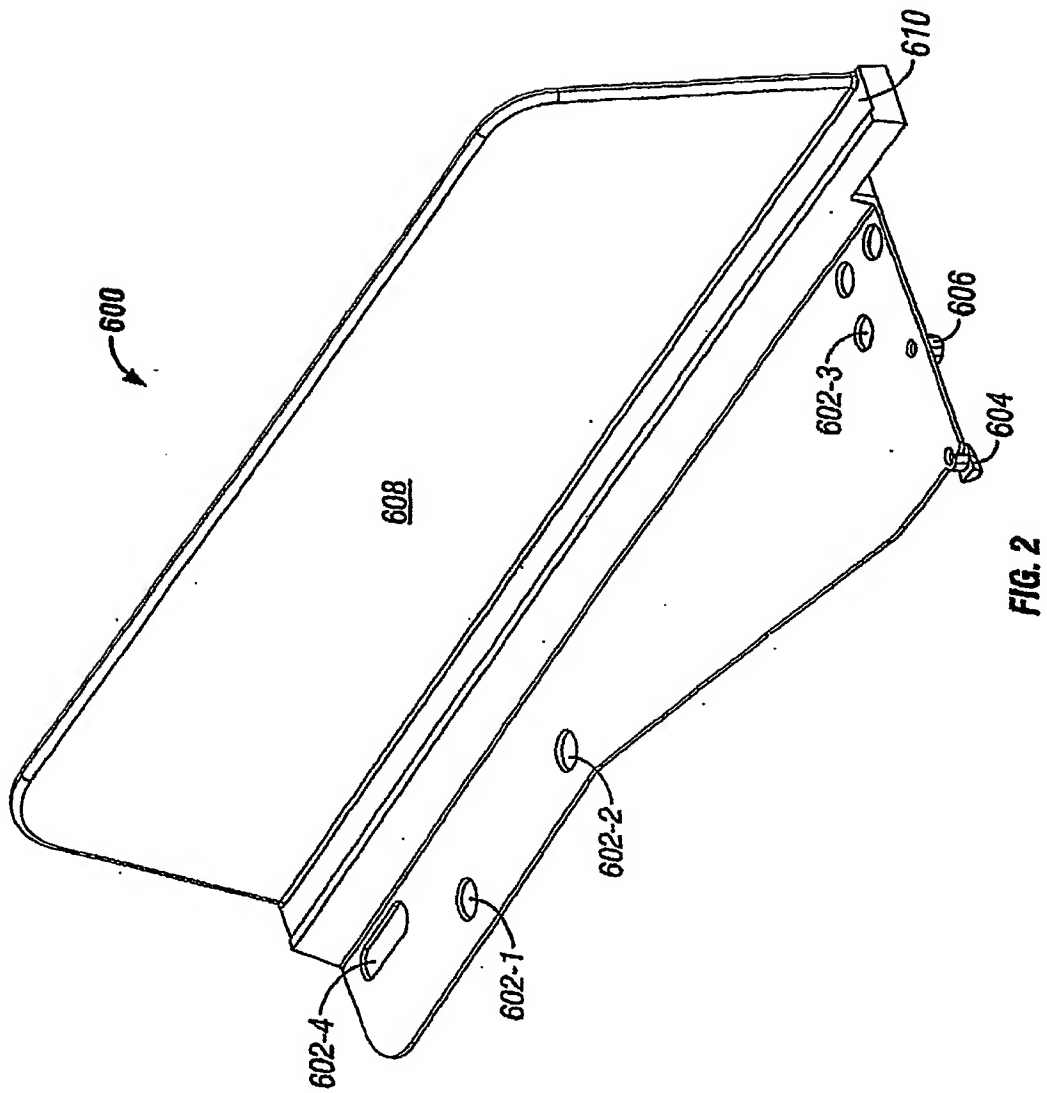
19. Dispositif de présentation de marchandises selon la revendication 16, comprenant en outre :

un deuxième ensemble intégré de base et de séparation (500-1) ayant un poussoir décalé et conçu pour être couplé fonctionnellement à une étagère, dans lequel la deuxième partie de base (520-2) de l'ensemble de base et de séparation (500-2) supporte un premier côté d'un produit en présentation (1402) et une première partie de base (518-1) du deuxième ensemble de base et de séparation supporte un côté qui est opposé au premier côté dudit produit.

20. Dispositif de présentation de marchandises selon la revendication 1, dans lequel la partie de base est couplée fonctionnellement à une étagère (1401) au moyen d'un rail avant (1000).

21. Dispositif de présentation de marchandises selon la revendication 1, dans lequel la partie de base est couplée fonctionnellement à une étagère (1401) au moyen d'un rail (1000) qui est fixé à l'étagère.





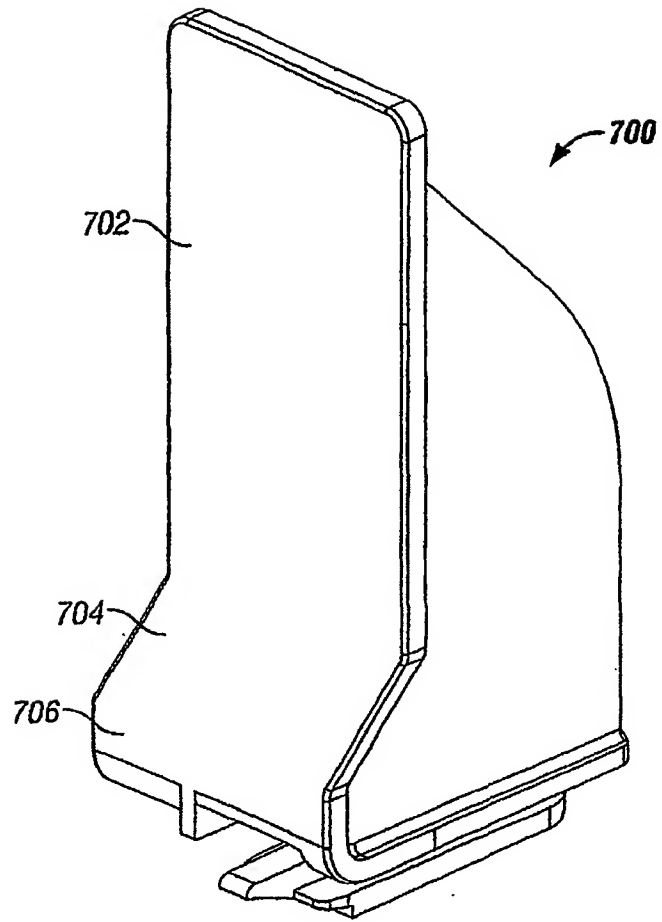
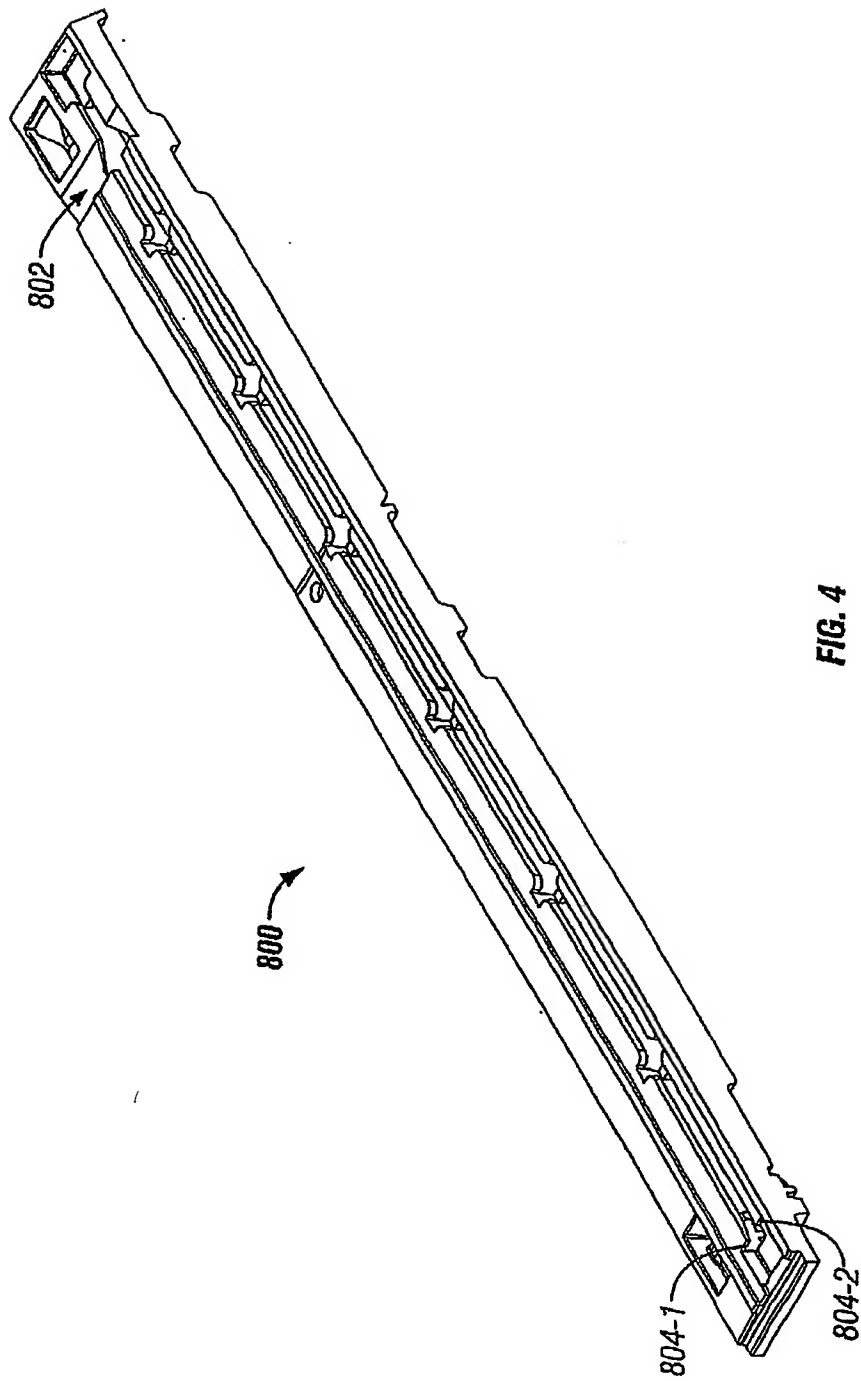


FIG. 3



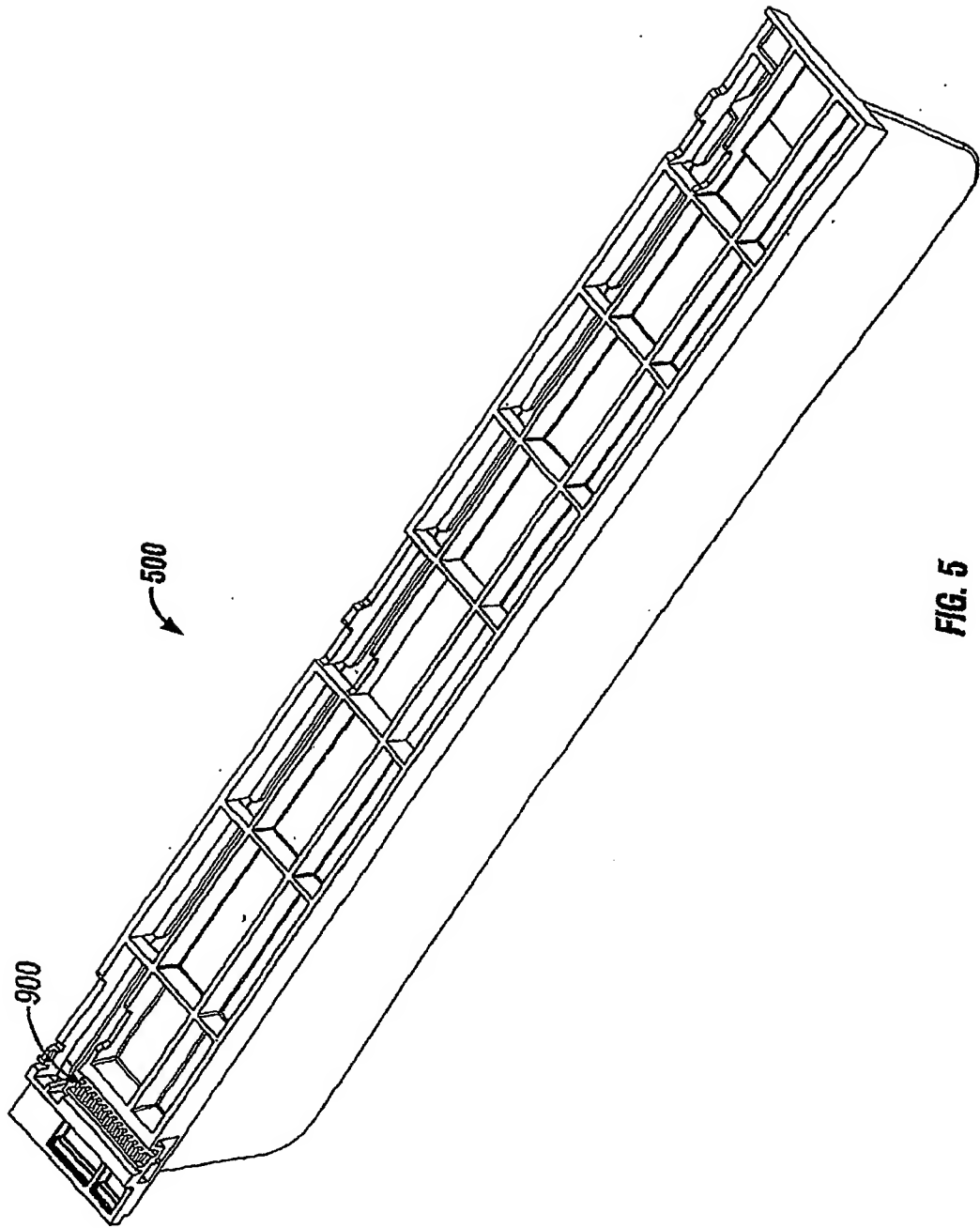


FIG. 5

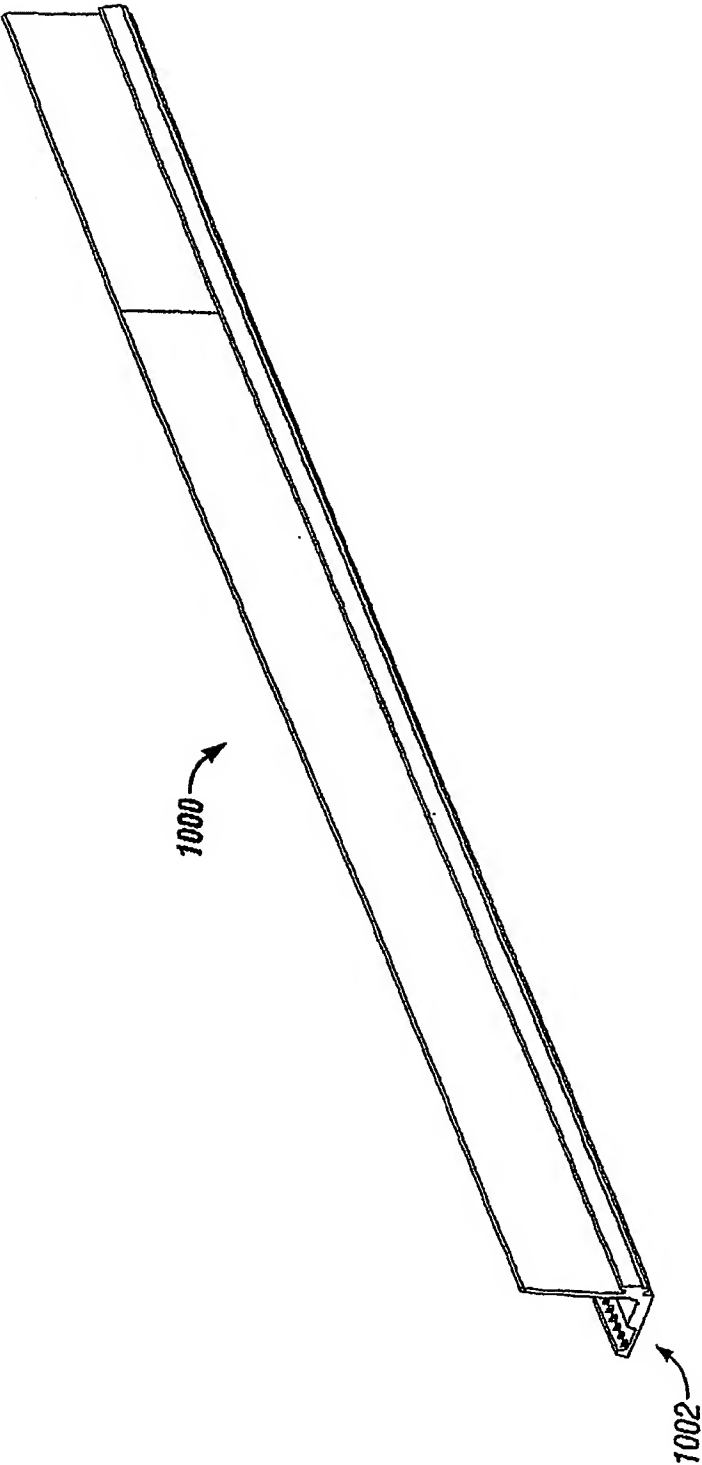


FIG. 6

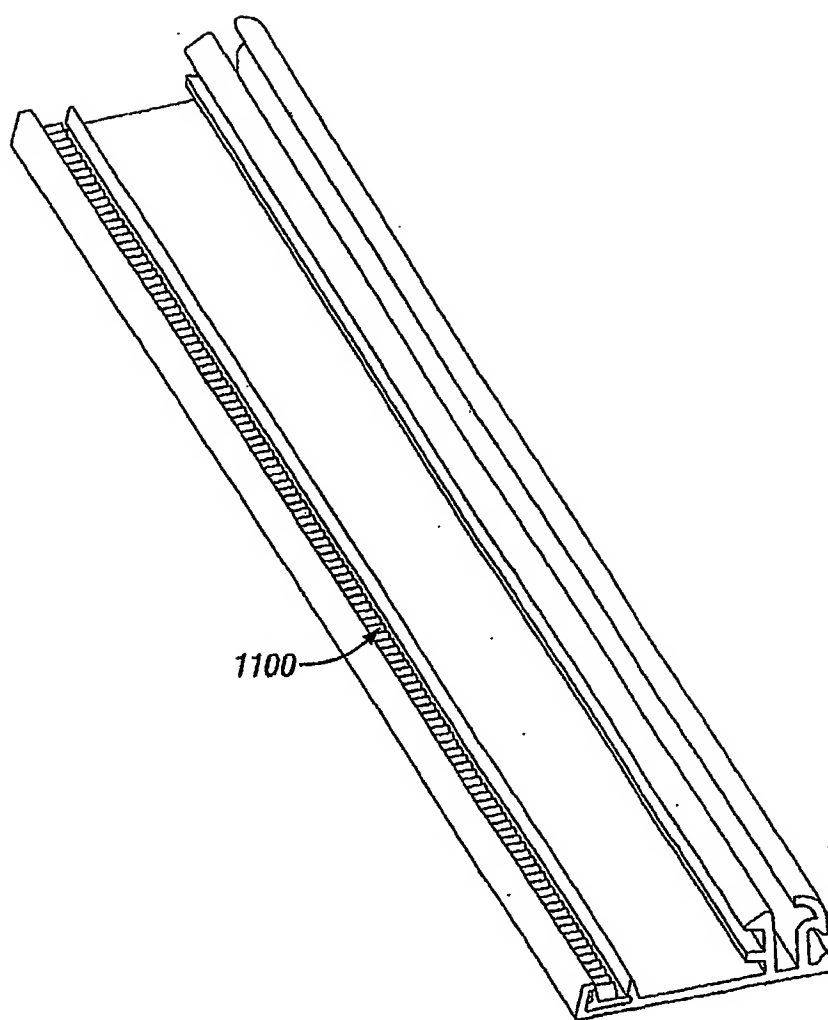


FIG. 7

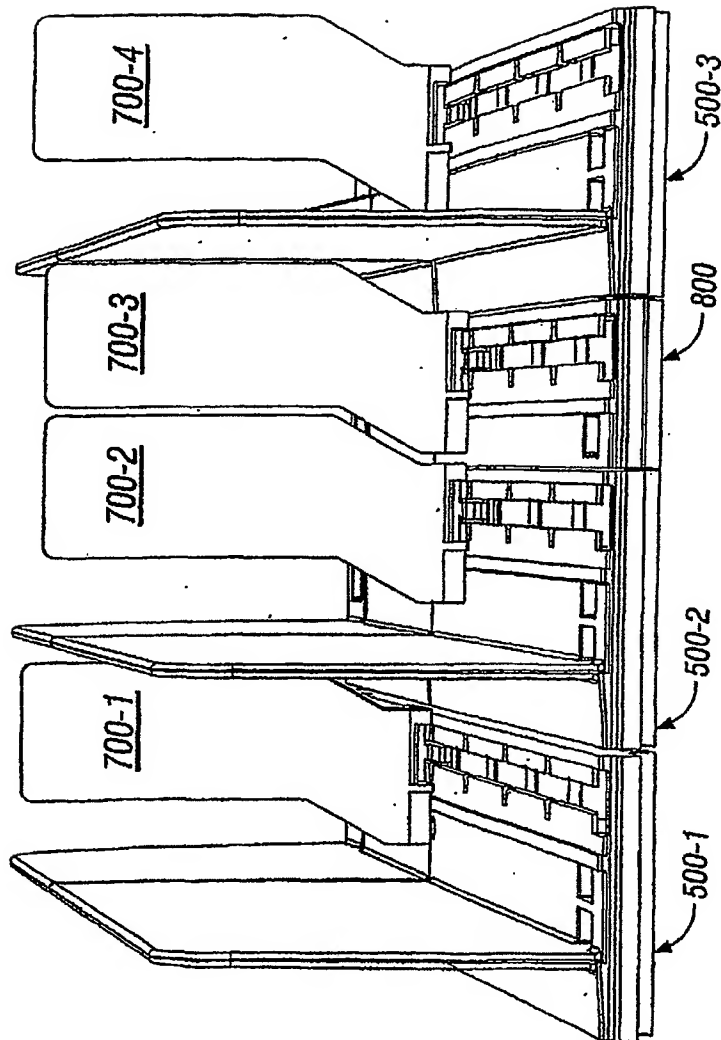


FIG. 8

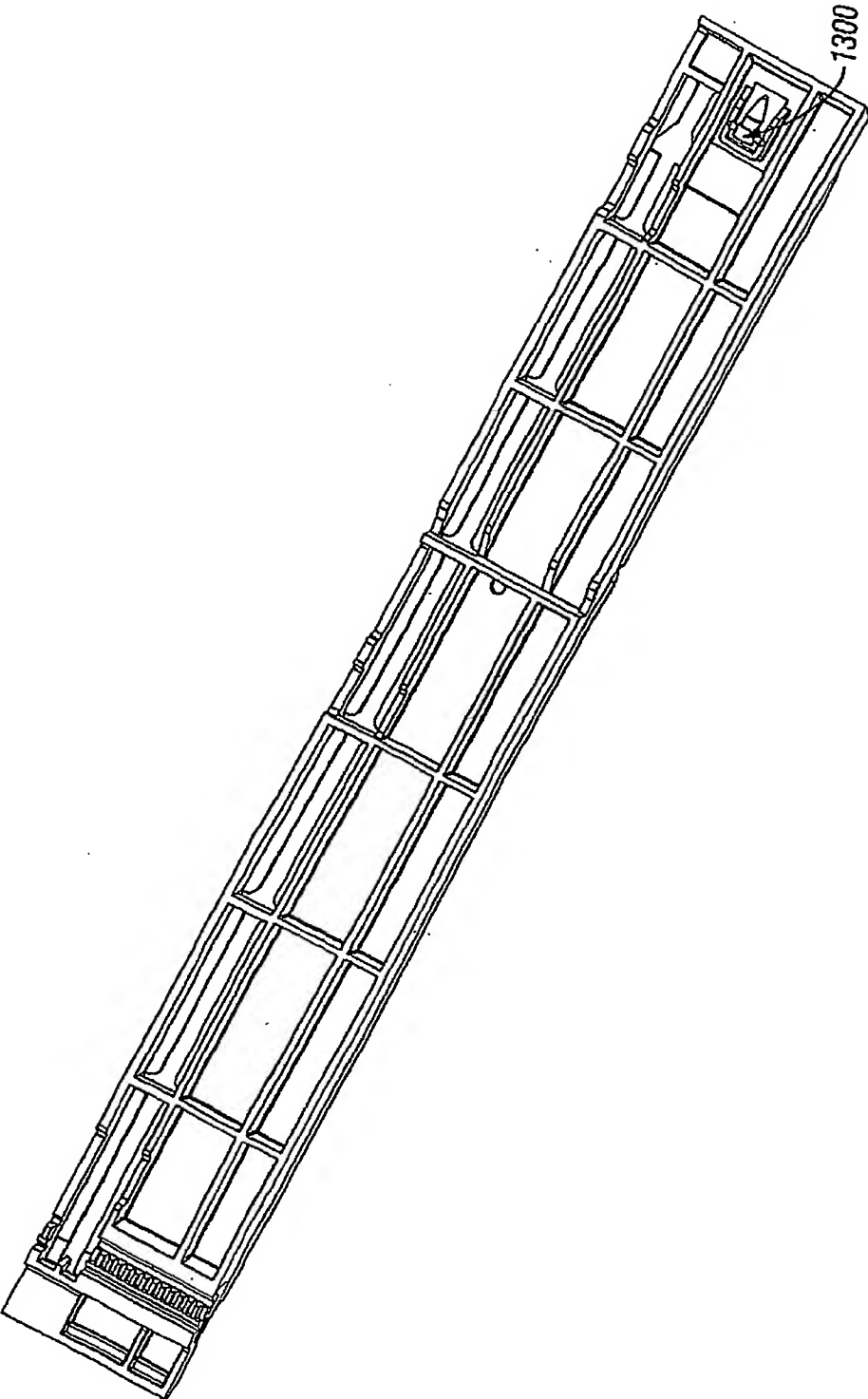


FIG. 9

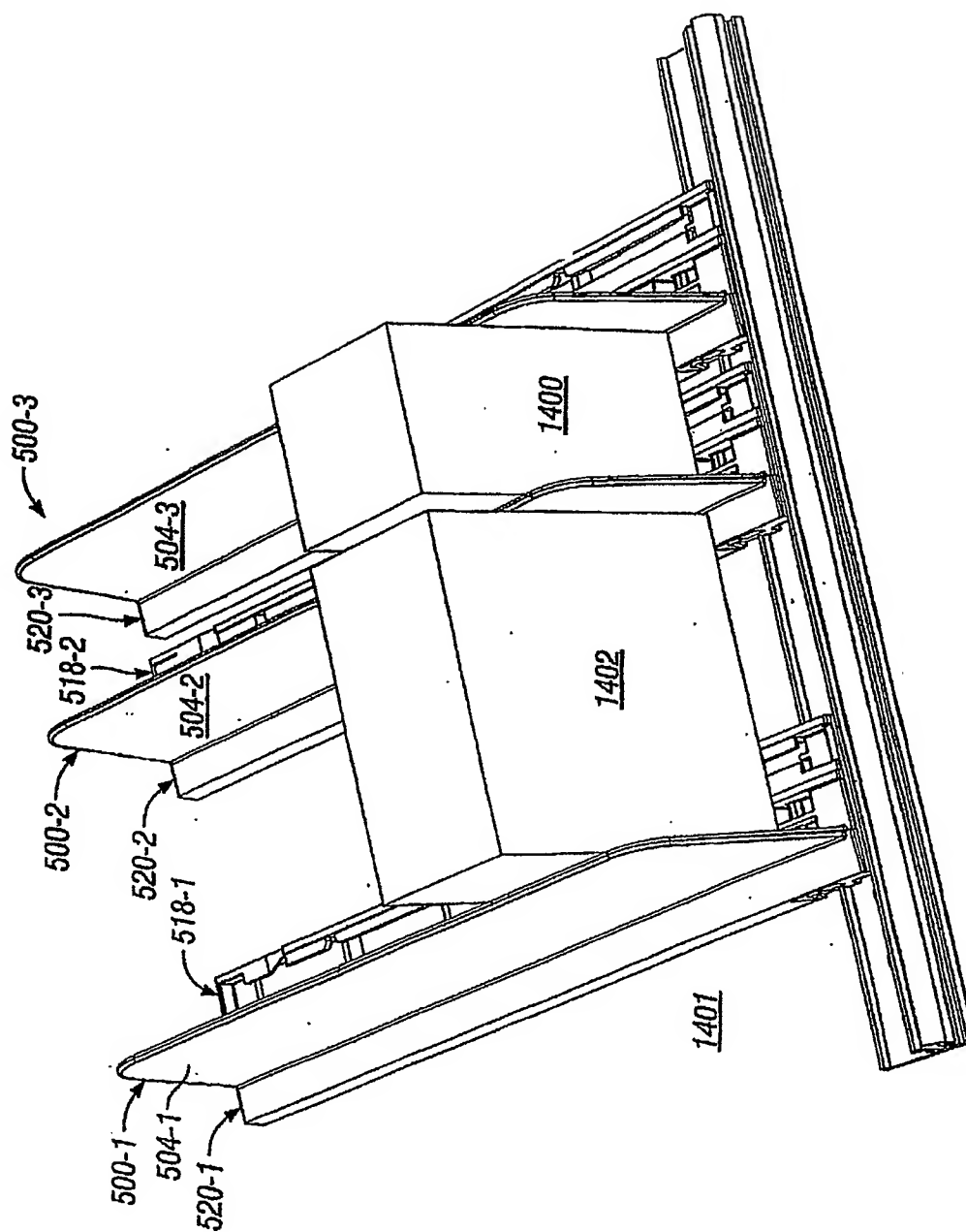
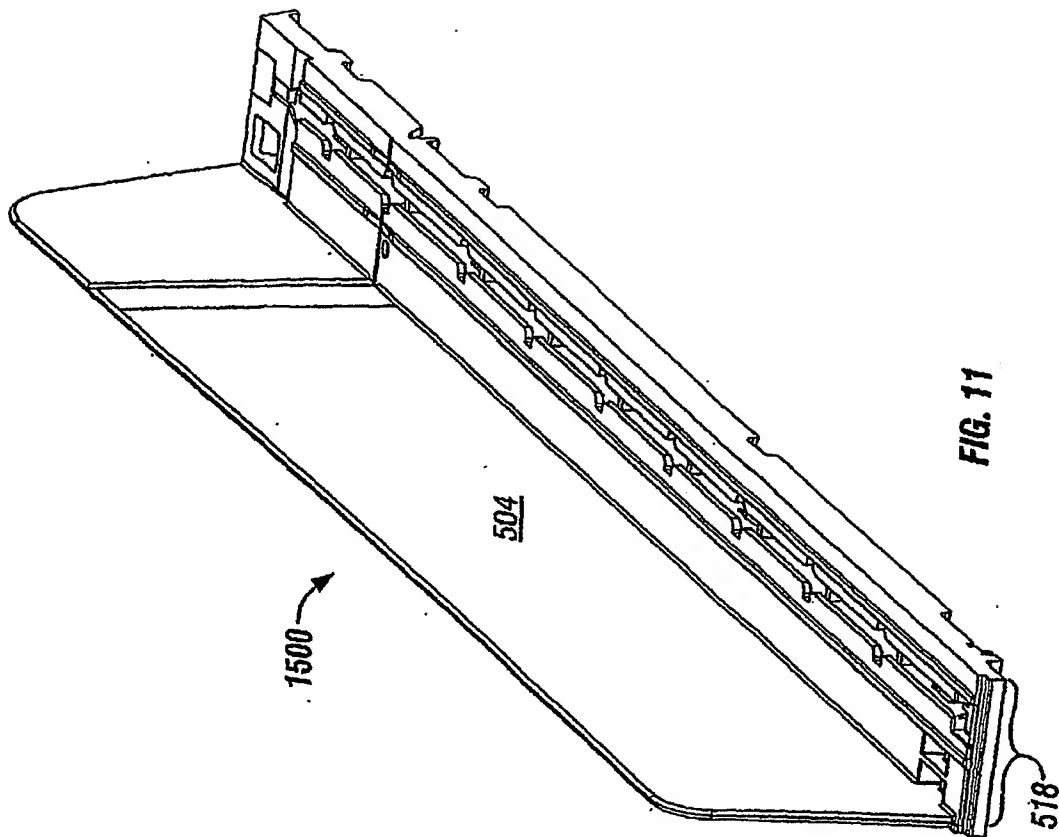


FIG. 10



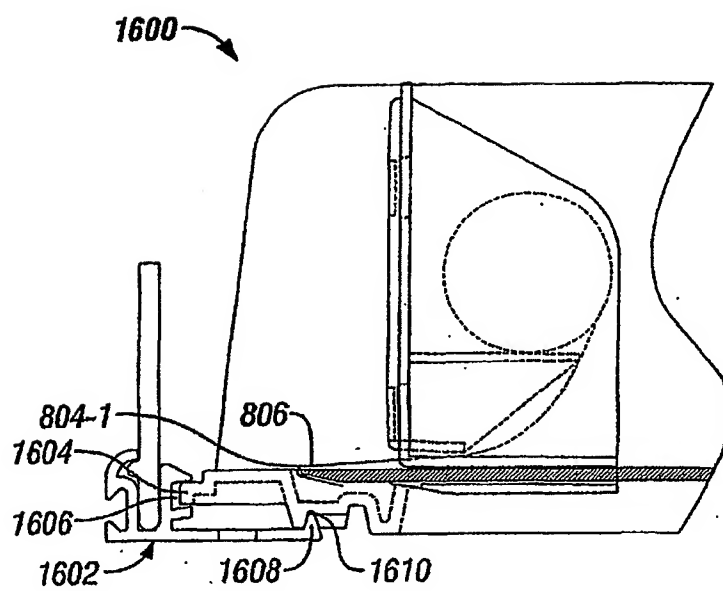


FIG. 12